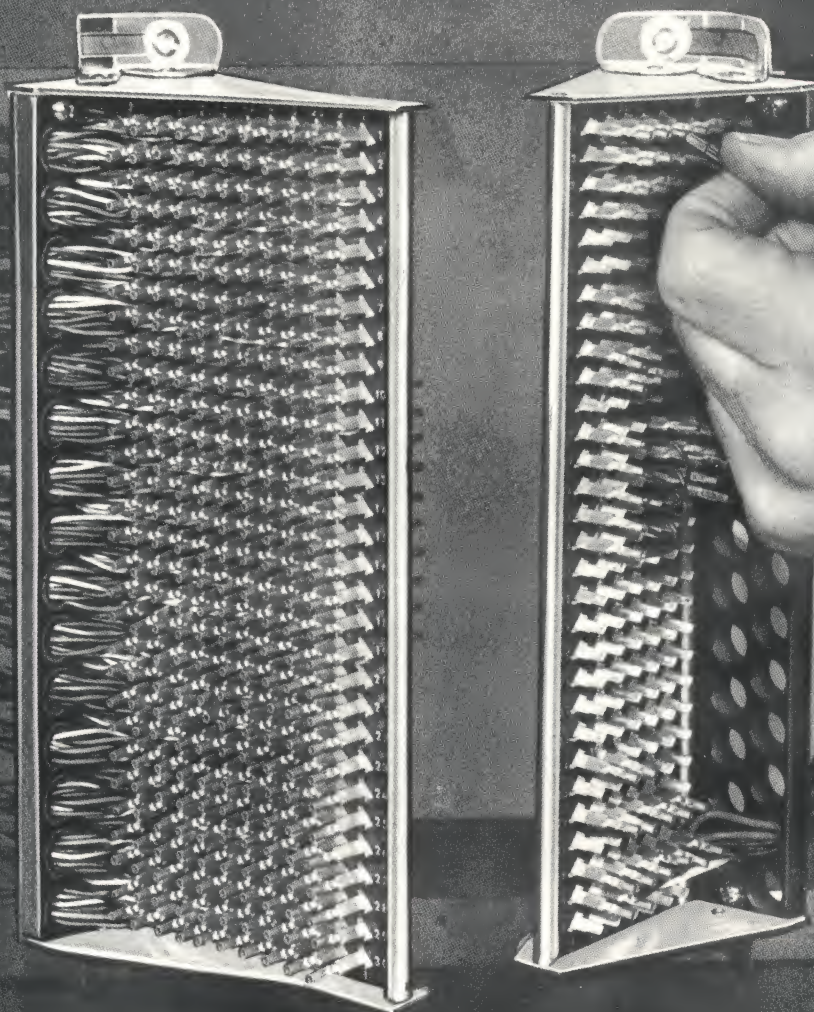




CONNECTO-BLOK[®]

TERMINAL BOARD

PATENTED AND PATENTS PENDING



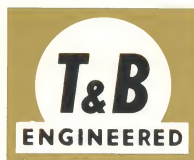
NOW — A High Density, Low-Cost Disconnect Wiring System

With Connecto-Blok, you save on installation time and system trouble shooting costs while increasing system reliability, and flexibility. The Connecto-Blok design and wiring arrangement is ideally suited for a high density wiring system — wire size #24-16 stranded #24-20 solid. It accommodates a heavy concentration of solderless plug-in, wire wrap or solder connections. The quick disconnect feature of the Connecto-Blok provides for programming capability. Connecto-Blok Board adapts to video systems where grounded shielded wiring or coaxial type cable requires isolation to eliminate crosstalk . . . it is used as a minor printed circuit installation with resistors, diodes, capacitors and similar electronic components. □ After reviewing these features discussed on the following pages, contact your local T&B office for further information or demonstration. For special applications contact our Application Engineering Department.



THOMAS & BETTS

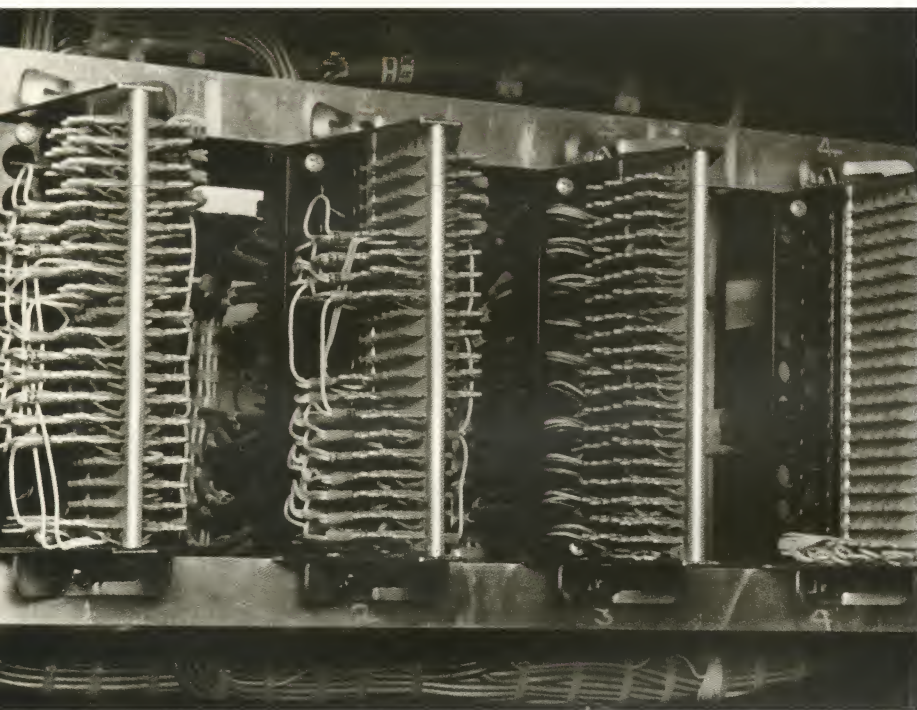
Proven Low-Cost Reliability in Thousands of Audio, Video, Pulse and Control Circuits



CONNECTO-BLOK[®]

TERMINAL BOARD

VERSATILE, RELIABLE AND ECONOMICAL HIGH DENSITY WIRING SYSTEM MAKES TROUBLE SHOOTING EASIER



TERMINATING METHODS ACCOMMODATED
Quick, solderless Snap-ons provide programming capability and ease of trouble shooting.

Wire wrap pins available in combination with disconnect terminals. Soldered connections also can be made.

WIRING SYSTEM FLEXIBILITY EXPANDED
Jumper Strips ideal for daisy chain strapping — Bus Connectors ease and speed commoning — Circuit Component mounting simplifies trouble shooting.

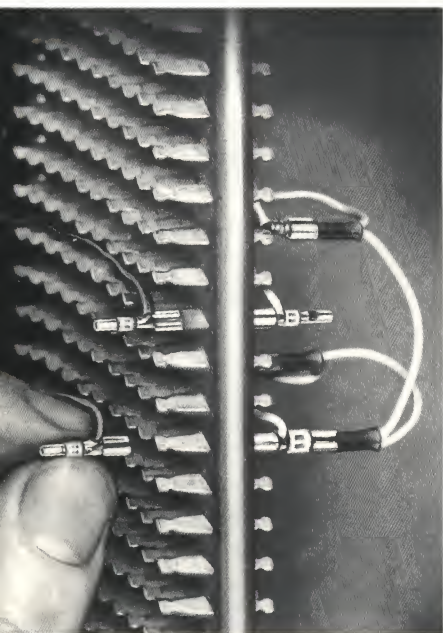
NEW FABRICATING CONVENIENCE ACHIEVED
Removable Fanning Strips aid in easier and more efficient harness fabrication. Mounting Bracket can be angled to ease trouble shooting and wire changing.

WIDE VARIETY OF STYLES AVAILABLE
Standard designs include Audio, Control, Video and Pulse. Blocks can be modified for special applications.

INSTALLATION TOOLS AND ACCESSORIES
Additional installation convenience and speed are achieved with: Wire Cutting Guide, Protective Cover, Compression Tools and Insertion Tools.

BASIC QUICK DISCONNECT METHOD FEATURES

LOW COST SYSTEM RELIABILITY



The Connecto-Blok benefits designers whose requirements demand flexibility of system circuits, reliability of connection and over-all installation economies and ease of system trouble shooting.

Flexibility is achieved as the quick disconnect method is a true plug-in system for each wire. Whether the installation is permanent or subject to frequent circuit revisions, a single wire can be unplugged without disturbing other connections. A unique feature of the BT 110-SB Snap-On female terminal lies in the way the wires come in at the center of the female tab, leaving the end free to use as a "handle" for quick insertion or extraction in changing circuitry. This back-barrel is also used for jumping or strapping and as a test probe.

The mechanical and electrical reliability of a permanent joint is achieved through design of the T&B Snap-On female terminal and male tab. A detent in the male tab insures a secure connection until intentionally removed. The sides of the female tab curl around to cause the edges to press into the male tab. Only one size terminal is required for wire sizes #24 through #16 stranded or #24 - #20 solid wire, BT 110-SB. A specially designed hand tool WT-452 is used to crimp wires in the Snap-Ons. A seamless press fit collar is formed around the terminal barrel for increased

strength and reliability. For large operations and prefabrications, high speed strip terminal attaching machines are available. Quick, easy installation or extraction of females to males is accomplished with a single hand tool, WT-650.

The Connecto-Blok, itself, is coded horizontally and vertically for quick tab or pin identification for initial wiring installations and trouble shooting. The over-all method of female terminal connection and male tab insertion provides a maze free dressing. This feature aids in trouble shooting as each wire can easily be lifted out and removed. Up to 20% savings in wiring costs are reported where the Connecto-Blok disconnect method is used in place of solder type terminal blocks. Up to 40% savings are reported where wiring layouts permit use of a high-speed strip terminal attaching machine. Since the Connecto-Blok method provides greater reliability than soldered terminal boards, you reduce installation costs while achieving positive electrical connections.

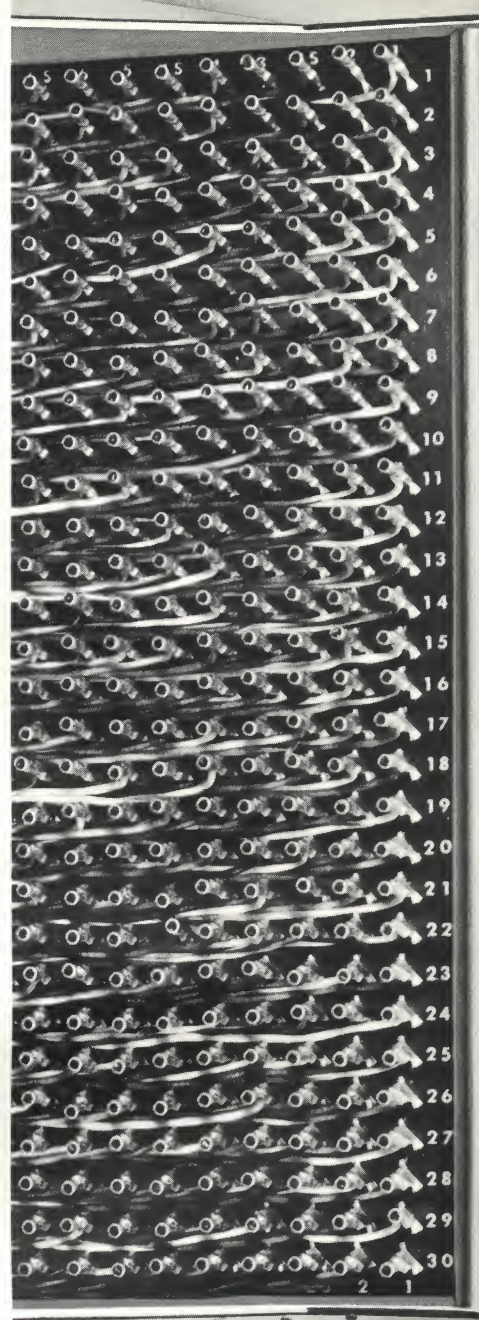
The Connecto-Blok, utilizing the disconnect termination method, is widely used in data processing, telemetry, communications, signal control, guidance systems and television systems.

ACCOMMODATES WIRE WRAP

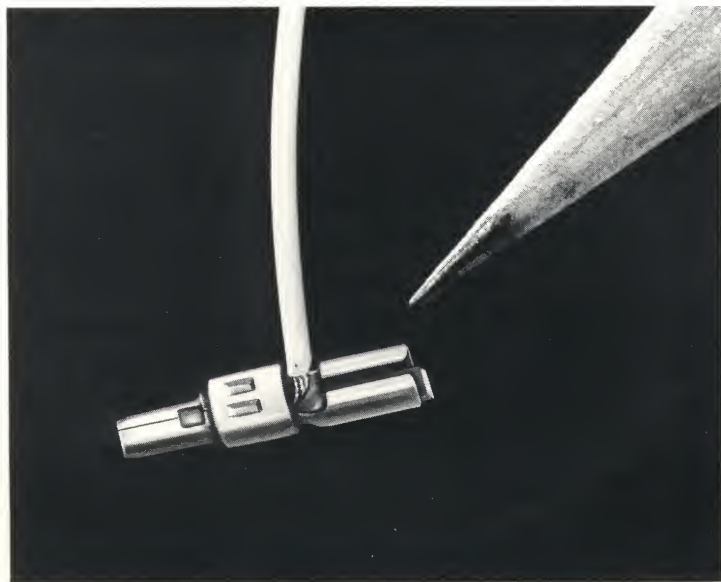
The basic Connecto-Blok now accommodates wire wrap pins. This combination terminal board has wire wrap pins on one side and quick disconnect tabs on the other side for interconnections and efficient field wiring and system changes. All of the quick disconnect advantages remain, plus the production efficiencies of high speed wire wrap for large operations or prefabrications. The wire wrap pin will accept three wires normally wrapped. More contact surface per lead length is also provided with this pin design.

ACCOMMODATES SOLDERED TERMINATIONS

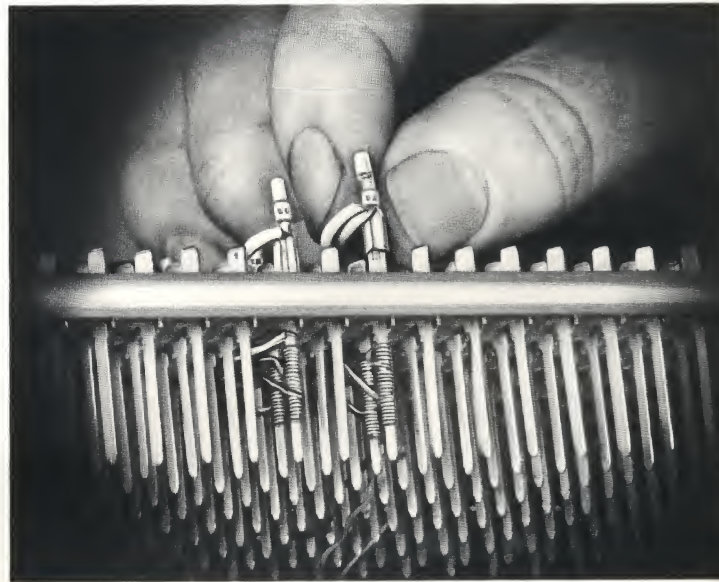
The male terminals of the Connecto-Blok have been designed with a detent to accept soldered terminations for field applications. All of the basic Connecto-Blok advantages are still afforded with the exception of low cost flexibility of a disconnect for system changes.



Coded rows and maze free dressing makes trouble shooting easier



Unique terminal design permits wires to come in at center, allowing back barrel to perform multiple functions — seamless press-fit collar increases strength and reliability.



New combination terminal board accommodates disconnect method on one side and wire wrap on the other side.

NEW ACCESSORIES EXTEND PROGRAMMING FLEXIBILITY

The quick disconnect feature of the Connecto-Blok allows easy transfer of leads for programming circuits. Any female lead can be quickly disconnected and transferred to a new tab location.

JUMPER STRIPS — DAISY CHAIN

Connecto-Blok circuits can be commoned easily with the use of jumper strips at substantially lower costs in finalizing circuitry.

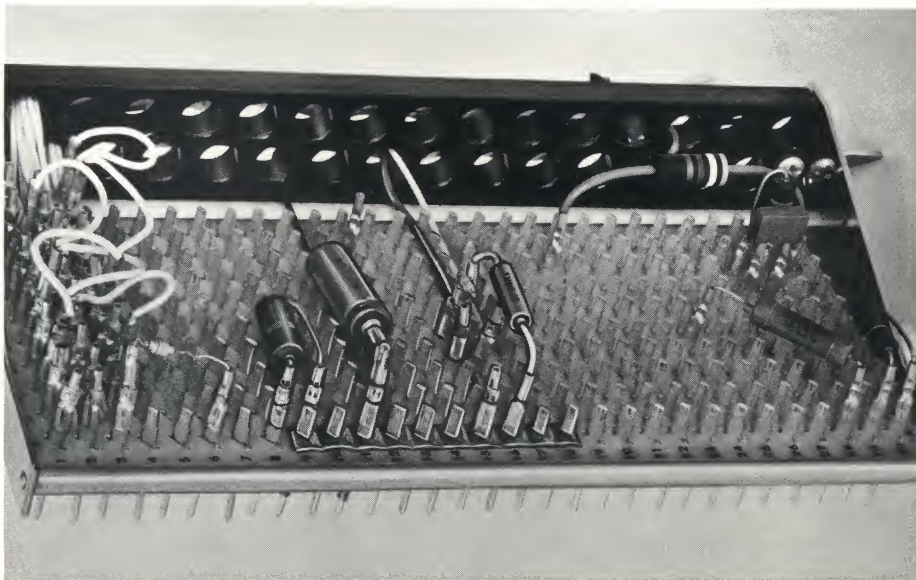
T&B offers designers prefabricated daisy chain jumper strips on reels — spaced exactly to your application. The illustration shows a typical strip with terminals spaced at a five-tab or five-pin jump vertically (or horizontally) on the block. The jumper strip terminals snaps onto the "back barrel" of the BT 110-SB female disconnect terminal, or it can be installed directly on the male tab. The BT 110-SB terminals are also available in jumper strip form.

BUS STRIP CONNECTOR

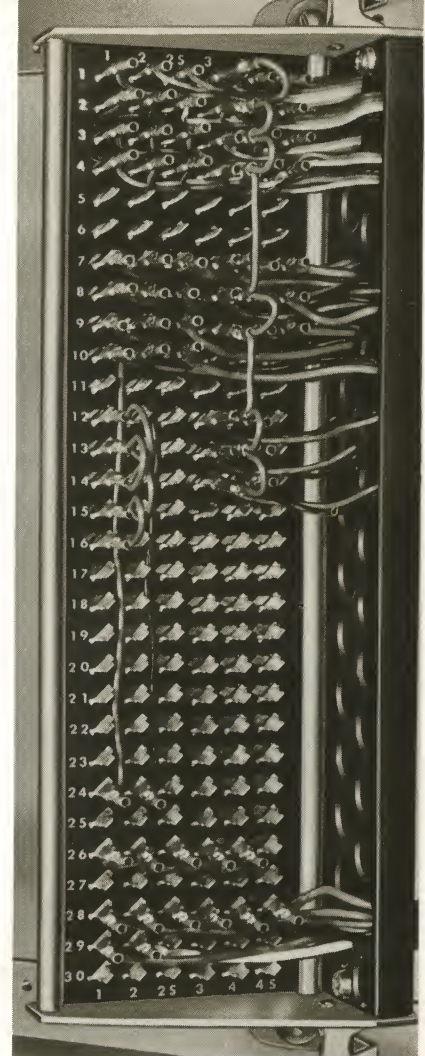
The bus strip connector allows commoning or bussing of certain rows or tabs adjacent to each other in programming applications. The bussing strip is installed quickly and easily with the WT-453 tool. The strips are available in lengths of 6 terminations or less for vertical (CAT. No. BC-101) or horizontal (CAT. No. BC-100) bussing as specified..

CIRCUIT COMPONENT MOUNTING

The Connecto-Blok accommodates the mounting of diodes, resistors, capacitors and other similar components which eliminates need to break out wires further along in the system. These components are crimped onto the back-barrel of the BT-110SB females which then snap onto the Connecto-Blok tabs.



Circuit components mounted on terminal board provide additional ease of trouble shooting system



Connecto-Blok with jumper strip

Bus Strip Connector installed



NEW DEGREE OF FABRICATING CONVENIENCE

SPEED INSTALLATION ■ SIMPLIFIES MAINTENANCE ■ IMPROVES PRE-ASSEMBLY OPERATIONS

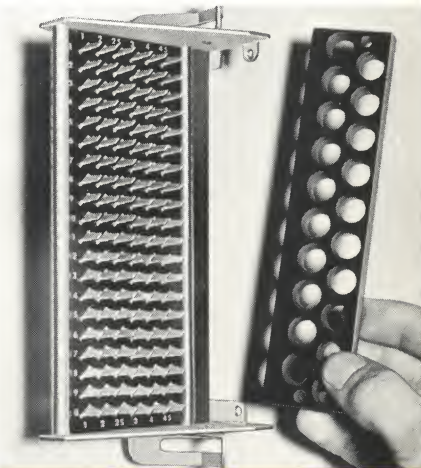
REMOVABLE FANNING STRIP

Removable high-impact phenolic fanning strips permit left and right wiring harnesses to be fabricated independently. This facilitates bench wiring of harnesses, internal rack wiring and on-the-job interconnections between racks. The pass thru holes are oriented to maintain wiring and location ease. The inboard holes are aligned with the "odd" numbered terminal rows and the outboard holes with the "even" numbers.

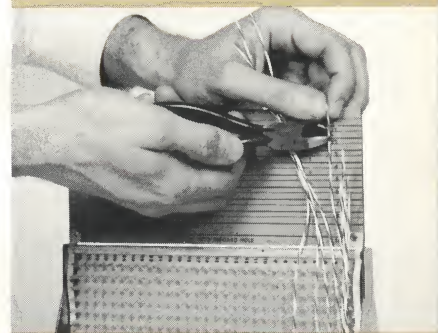
In the case of bench wiring, the fanning strip can be positioned directly on the harness board to further effect efficiencies, and a "wire cutting guide" can be mounted to give proper cut off lengths for final termination. Upon completion, the fabricated harness and fanning strip can be sent to the installation point . . . the Connecto-Blok would be already mounted in its proper position. This technique has improved the production and assembly flow on many OEM and system installations and has reduced the lag time in equipment installations. The newly developed "wire cutting guide" also provides additional assembly efficiencies if the lead length and termination is to be done at installing point. Field wiring can proceed for the equipment-to-be-wired before the equipment is received. Shop wiring which involves several departments can be coordinated in a similar manner with the "guide".

MOUNTING BRACKET PIVOTS FOR EASIER INSTALLATION, MAINTENANCE, TESTING

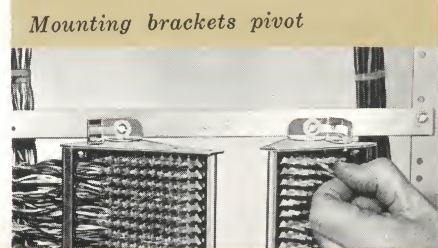
The T&B Connecto-Blok comes complete with an easy-to-mount bracket. The bracket mounts on conventional racks with #10 screw. In addition to the quick installation advantage, the bracket is slotted to permit 90° pivoting, 45° to either side for increased excessibility. Because of the pivoting feature, additional space can be saved in density wiring systems. Connecto-Blok terminations can be connected, disconnected, or tested in their original mounting position. Terminations can be relocated or programmed without removing block from rack. This feature also eases trouble shooting a system.



Fanning Strips are removable



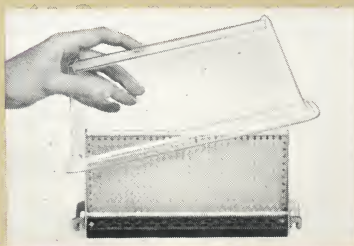
Easy-to-use wire cutting guide



Mounting brackets pivot

STURDY, CLEAR COVER PROTECTS CONNECTO-BLOK

A rugged clear butyrate plastic cover easily snaps on or off the Connecto-Blok. Protects against dust and foreign matter. During maintenance work, cover shields blok against possible accidental shorting while working on adjacent equipment.



POSITIVE COMPRESSION WITH CRIMPING TOOLS

The improved WT-452 hand tool, with ratchet feature, is ideal for assembly line use.

The 11962 is a portable air hydraulic tool for fast — positive compressions used on high speed assembly lines.



INSTALLATION TOOL

The WT-650 tool is for quick, easy insertion and extraction.



WIDE VARIETY OF STYLES AVAILABLE

STANDARD AND CUSTOM DESIGNED CONNECTO-BLOK TO MEET YOUR SPECIFIC REQUIREMENTS

The Connecto-Blok is accepted as an unusually practical method of connection where a high degree of reliability and flexibility is required. T&B has created a number of terminal blocks for varying applications, some of which are illustrated here. If a standard Connecto-Blok does not meet your requirements, our application engineers will work with you in adapting a custom-designed Connecto-Blok to your specifications.

FOR VIDEO AND PULSE CIRCUITS						
DIMENSIONS (IN INCHES)						
CAT. NO.	NO. OF TABS	H	W	C	B	PROTECTIVE COVERS
CB300	300 (30 rows of 10)	10 $\frac{3}{16}$	4 $\frac{1}{32}$	9 $\frac{1}{2}$	2 $\frac{5}{8}$	CB300C
CB180	180 (30 rows of 6)	10 $\frac{3}{16}$	3 $\frac{3}{32}$	9 $\frac{1}{2}$	2 $\frac{5}{8}$	CB180C
CB120	120 (20 rows of 6)	7 $\frac{3}{8}$	3 $\frac{3}{32}$	6 $\frac{1}{16}$	2 $\frac{5}{8}$	CB120C
CB120A	120 (12 rows of 10)	5 $\frac{1}{8}$	4 $\frac{1}{32}$	4 $\frac{1}{16}$	2 $\frac{5}{8}$	CB120AC
FOR AUDIO AND CONTROL CIRCUIT						
CB30	30 (1 row of 30)	10 $\frac{3}{16}$	2 $\frac{1}{64}$	9 $\frac{1}{2}$	2 $\frac{5}{8}$	

SPECIFICS:

Tab size on Connecto-Blok boards is .110 x .032. Material is tin plated bronze.

Base case material is green epoxy, glass laminated NEMA Std. G10. The standard .218 tab spacing has exceeded 2000 V. A.C.R.M.S. or DC flash over Hi-pot tests.

All metal parts except tabs and tie rods are nickel plated. Mounting bracket takes a #10 screw.

Any of the above Connecto-Bloks can be ordered with wires wrap posts — indicate right or left side — see diagram.

WIRE CUTTING GUIDES			
CAT. NO.	FOR USE WITH	H	W
CB1WG	CB180, CB300	8 $\frac{7}{64}$	3 $\frac{3}{16}$
CB2WG	CB120	5 $\frac{5}{64}$	3 $\frac{3}{16}$

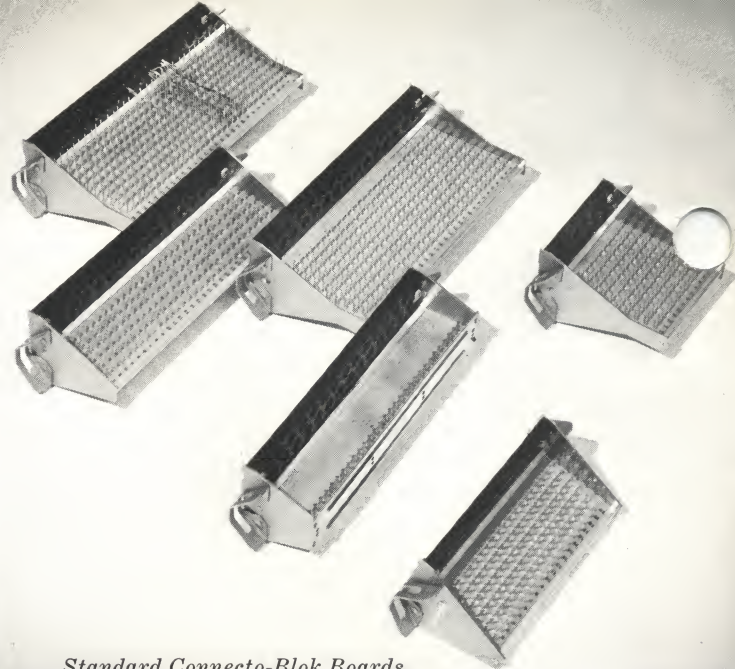
MATERIAL:

Phenolic board with phosphor bronze clips.

ALL CONNECTO-BLOK BOARDS ARE AVAILABLE WITH

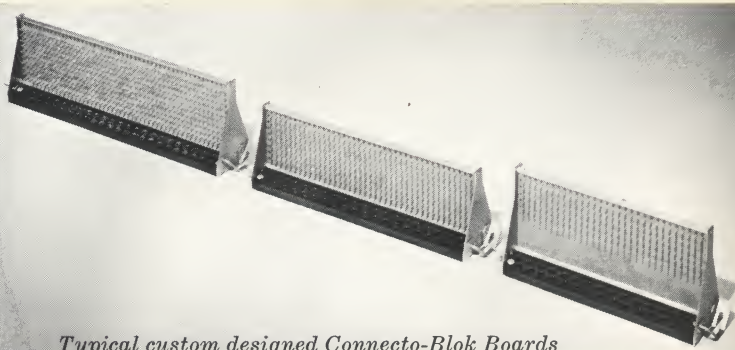
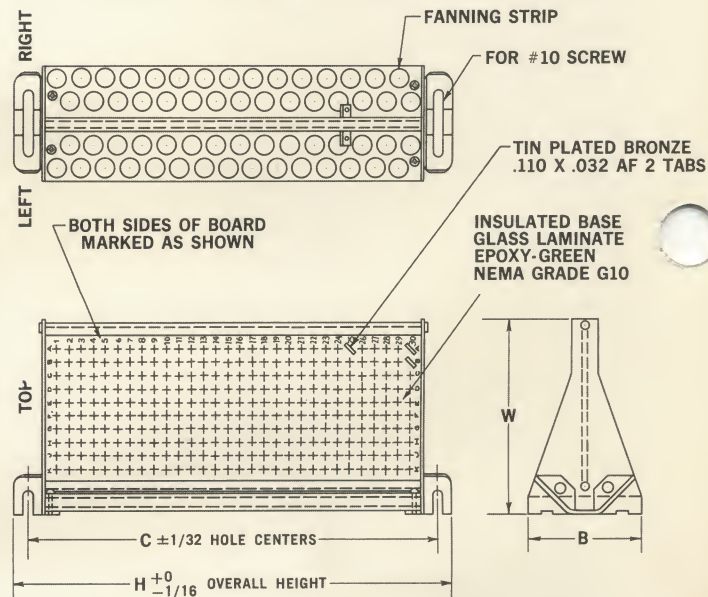
Wire Wrap Pins To Quick Disconnect EXCEPT Video Block. Any Standard Connecto-Blok Can Be Ordered With Less Tabs Than Shown In Any Direction.

All Data Subject To Change Without Notice



Standard Connecto-Blok Boards

CONNECTO-BLOK TERMINAL BOARD



Typical custom designed Connecto-Blok Boards



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